Field Crops Research, 29 (1992) 365–367
Elsevier Science Publishers B.V., Amsterdam

Contents of *Field Crops Research*, Volume 29

VOL. 29 NO. 1 MARCH 1992

Nitrogen uptake, water use, grain yield and protein content in wheat
D.M. Whitfield and C.J. Smith (Tatura, Vic., Australia) 1
Correlation between yield and osmotic adjustment of peas (*Pisum savivum* L.) under drought stress
B. Rodríguez-Maribona, J.L. Tenorio, J.R. Conde and L. Ayerbe (Madrid, Spain) 15
Maize (*Zea mays* L.) response to a severe soil water-deficit during grain-filling
D.S. NeSmith (Griffin, GA, USA) and J.T. Ritchie (East Lansing, MI, USA) 23
The effect of temperature on leaf emergence rates of sunflower genotypes
F.J. Villalobos (Cordoba, Spain) and J.T. Ritchie (East Lansing, MI, USA) 37
Effect of age at shoot removal on tuber and shoot yields at harvest of five sweet potato (*Ipomoea batatas* (L.) Lam) cultivars
S.C.O. Nwinyi (Umuahia, Nigeria) 47
Tillage effects on growth and yield of blackgram (*Phaseolus mungo*) and cowpea (*Vigna unguiculata*) after wet-season rice on an alluvial sandy clay-loam in eastern India
K.R. Mahata, H.S. Sen and S.K. Pradhan (Cuttack, India) 55
Phenotypic characters associated with yield adaptation of wheat to a range of temperature conditions
N.A. Mashiringwani and M.A. Schweppenhauser (Harare, Zimbabwe) 69
Measurement of root length and thickness using a hand-held computer scanner
G. Kirchhof (Wauchope, N.S.W., Australia) 79

Book Review
Elsevier's Dictionary of Plant Genetic Resources 89

VOL. 29 NO. 2 APRIL 1992

Announcement from the Publisher i

Adaptation to water deficits in three grain legume species. Mechanisms of turgor maintenance
J.M. Morgan (Tamworth, N.S.W., Australia) 91
Field screening of wheat cultivars for manganese efficiency
R.L. Bansal, V.K. Nayyar and P.N. Takkar (Ludhiana, India) 107
Cassava/legume intercropping with contrasting cassava cultivars. 1. Competition between component crops under three intercropping conditions
U. Cenpukdee and S. Fukai (Qld., Australia) 113

Cassava/legume intercropping with contrasting cassava cultivars. 2. Selection criteria for cassava genotypes in intercropping with two contrasting legume crops
U. Cenpukdee and S. Fukai (Qld., Australia) 135
Effect of growth habit on yield large-seeded bush cultivars of common bean
J.W. White, J. Kornegay, J. Castillo, C.H. Molano, C. Cajiao and G. Tejada (Cali, Colombia) 151
Modelling the fully expanded area of maize leaves
B.A. Keating (Nairobi, Kenya) and B.M. Wafula (Machakos, Kenya) 163

Book reviews 177

VOL. 29 NO. 3 MAY 1992

Announcement from the Publisher i

Special Issue
Plant genetic resources conservation and utilization: an evolving paradigm
S. Kresovich (Geneva, NY, USA) 183
Assessment and management of plant genetic diversity: considerations of intra- and interspecific variation
S. Kresovich and J.R. McFerson (Geneva, NY, USA) 185
Preservation of genetic diversity and accession integrity
D. Astley (Wellesbourne, Warwick, UK) 205
Gene action and the bottleneck effect in relation to sample size for maintenance of cross-pollinated populations
J. Crossa, D.C. Jewell, J.A. Deutsch and S. Taba (Mexico, D.F, Mexico) 225
Use of molecular markers in the evaluation and introgression of genetic diversity for quantitative traits
M. Edwards (LeSueur, MN, USA) 241
A proposed framework for identifying, quantifying, and utilizing plant germplasm resources
P.R. Beuselinck (Columbia, MO, USA) and J.J. Steiner (Corvallis, OR, USA) 261

VOL. 29 NO. 4 JUNE 1992

Announcement from the Publisher i

Yield production in two contrasting forms of spring-sown faba bean in relation to water supply
C.J. Pilbeam, J.K. Akatase, P.D. Hebblethwaite and S.D. Wright (Loughborough, UK) 273
Assessment of the phosphorus status of linseed
A. Pinkerton and P.J. Hocking (Canberra, A.C.T., Australia) 289

Ontogenetic changes in radiation use efficiency of sunflower (*Helianthus annuus* L.) crops
N. Trapani, A.J. Hall, V.O. Sadras and F. Vilella (Buenos Aires, Argentina) 301
Effects of sunflower residues and tillage on water wheat
P.J. Morris and D.J. Parrish (Blacksburg, VA, USA) 317
Pruning of nodal root axes to simulate feeding by corn rootworm (Coleoptera: Chrysomelidae) on grain corn
G.H. Whitfield (Harrow, Ont., Canada) 329

Short Communication
A hand-held red–infrared radiometer for measuring radiation interception by crop canopies
R.C. Nageswara Rao (Patancheru, India), J.H. Williams (Niamey, Niger), V.M. Rao and K.D.R. Wadia (Patancheru, India) 353

Author Index 361
Subject Index 363
Contents of *Field Crops Research*, Volume 29 365